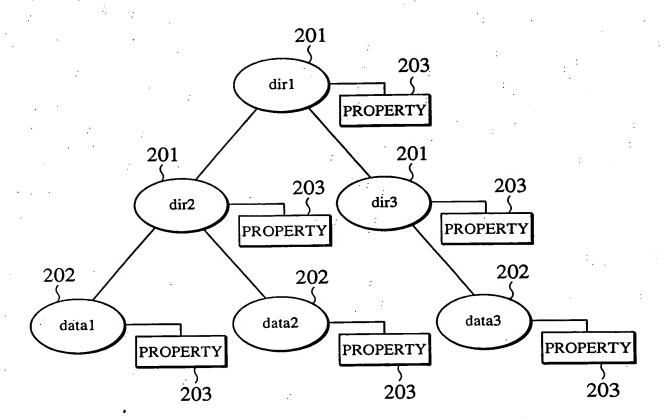
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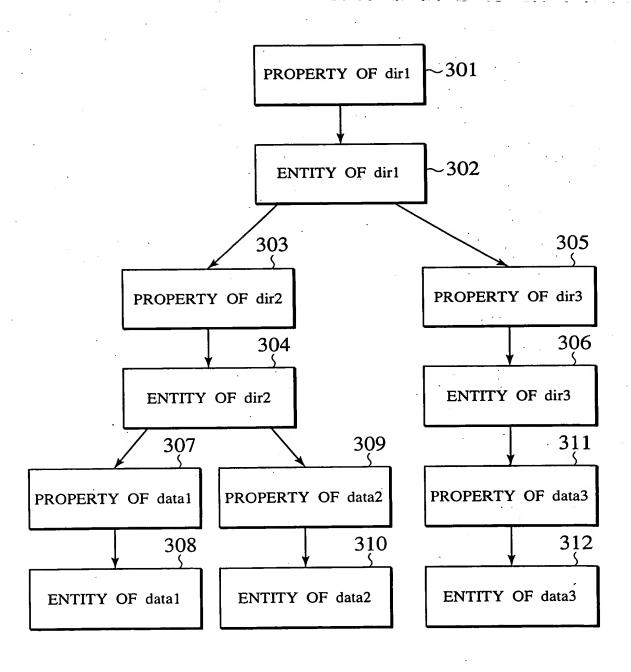
FIG.1

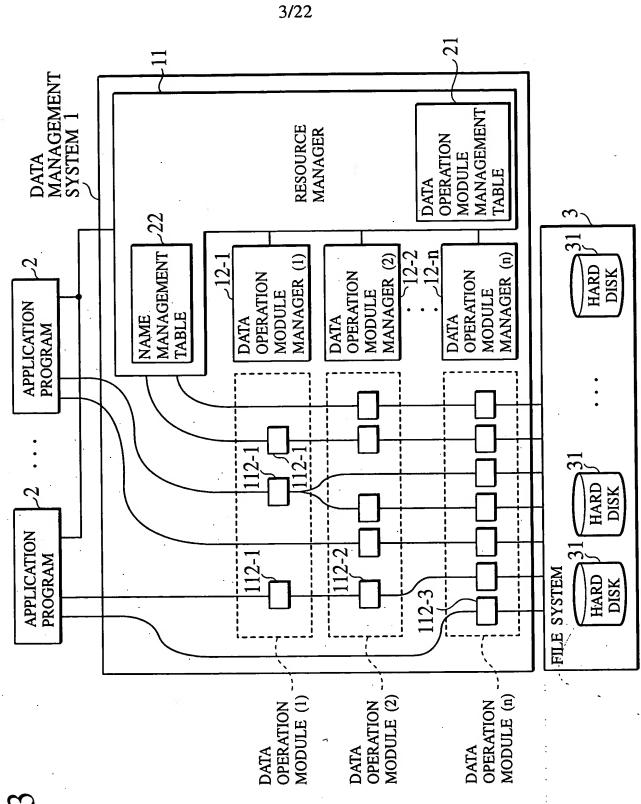


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FIG.2



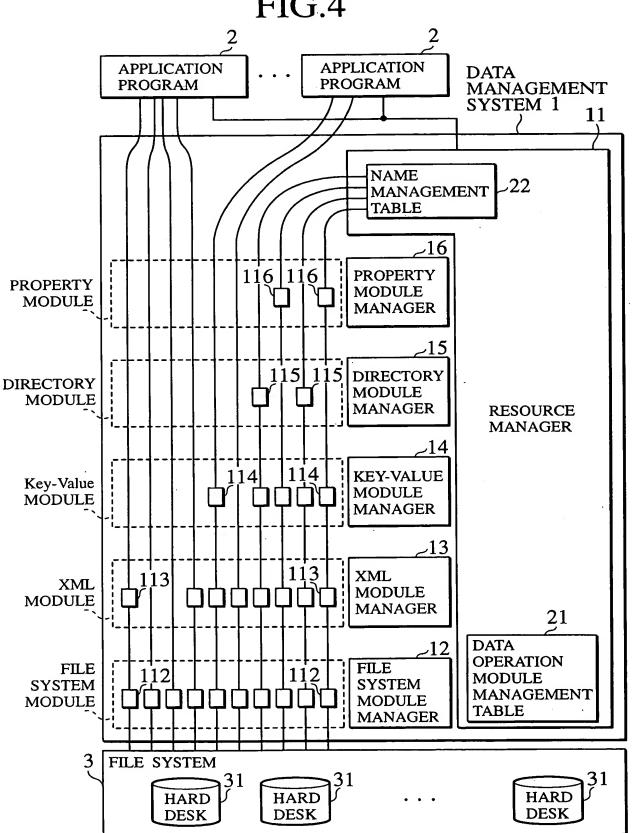


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FIG.4



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FIG.5

DATA OPERATION MODULE NAME	POINTER TO DATA OPERATION MODULE MANAGER	
<pre><pre><pre><pre></pre></pre></pre></pre>	POINTER TO PROPERTY MODULE MANAGER	
<dirm></dirm>	POINTER TO DIRECTORY MODULE MANAGER	
<kvm></kvm>	POINTER TO Key-Value MODULE MANAGER	
<xmlm></xmlm>	POINTER TO XML MODULE MANAGER	
<fsm></fsm>	POINTER TO FILE SYSTEM MODULE MANAGER	

NAME	POINTER TO PROPERTY MODULE	POINTER TO DIRECTORY MODULE
/dir1		
/dir1/dir2		
/dir1/dir2/data1		
/dir1/dir3		
/dir1/dir2/data3		
•	•	
	·	

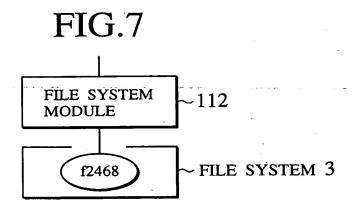
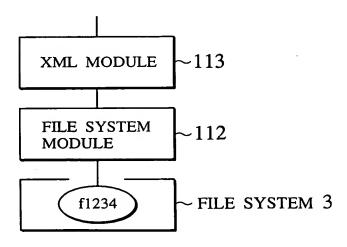


FIG.8

```
<fsm>
    <file>
        <name>f2468</name>
        </file>
    </fsm>
```



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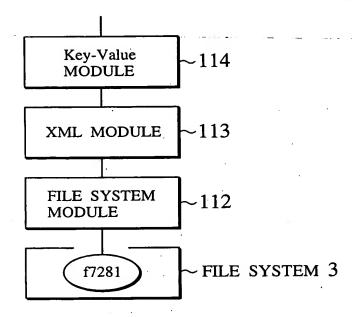
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FIG.10

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FIG.12



```
<kvm>
    <xmlm>
         <fsm>
            <file>
               <name>f7281</name>
            </file>
         </fsm>
    </mlm>
</kvm>
```

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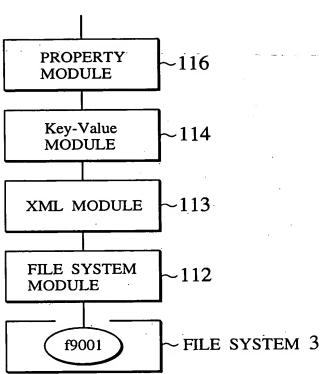
```
<kvtable>
  <entry>
      <key>creationdate</key>
      <value>1999-08-21/14:32:51.012345
  </entry>
  <entry>
      <key>owner</key>
      <value>John</value>
  </entry>
  <entry>
      <key>module</key>
      <value>
          <xmlm>
              <fsm>
                 <file>
                    <name>f3617</name>
                 </file>
              </fsm>
          </xmlm>
      </value>
   </entry>
</kvtable>
```

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FIG.15



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```
<kvtable>
   <entry>
      <key>data1</key>
       <value>
           propm>
               <kvm>
                  <xmlm>
                      <fsm>
                         <file>
                           <name>f9001</name>
                         </file>
                      </fsm>
                  </mlm>
               </kvm>
           </propm>
       </value>
   </entry>
   <entry>
       <key>data2</key>
       <value>
           propm>
                <kvm>
                  <xmlm>
                      <fsm>
                         <file>
                           <name>f6421</name>
                         </file>
                      </fsm>
                  </mlm>
                </kvm>
           </propm>
       </value>
   </entry>
</kvtable>
```

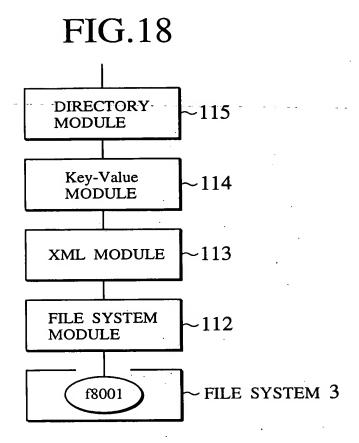
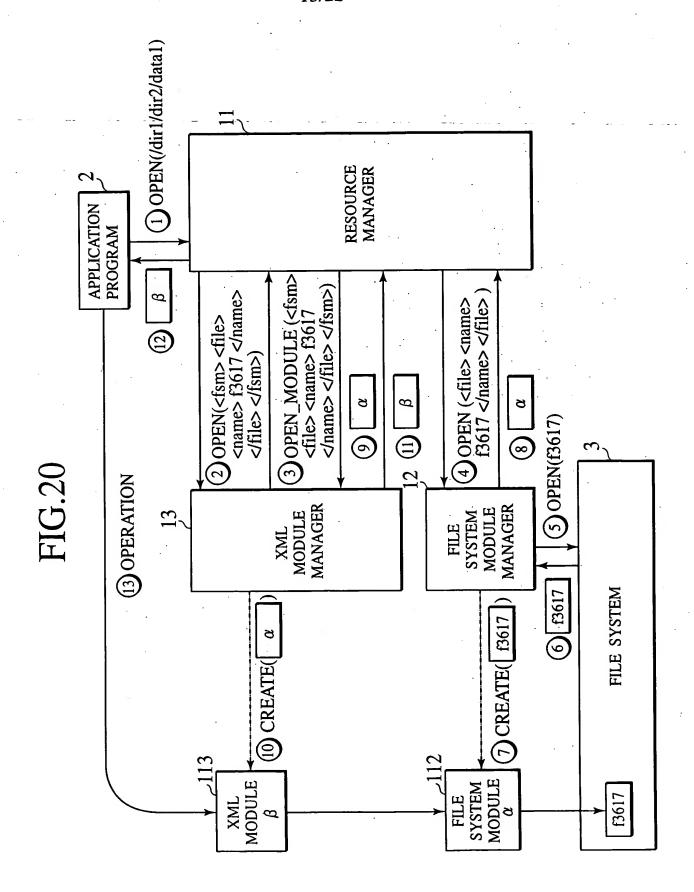


FIG.19

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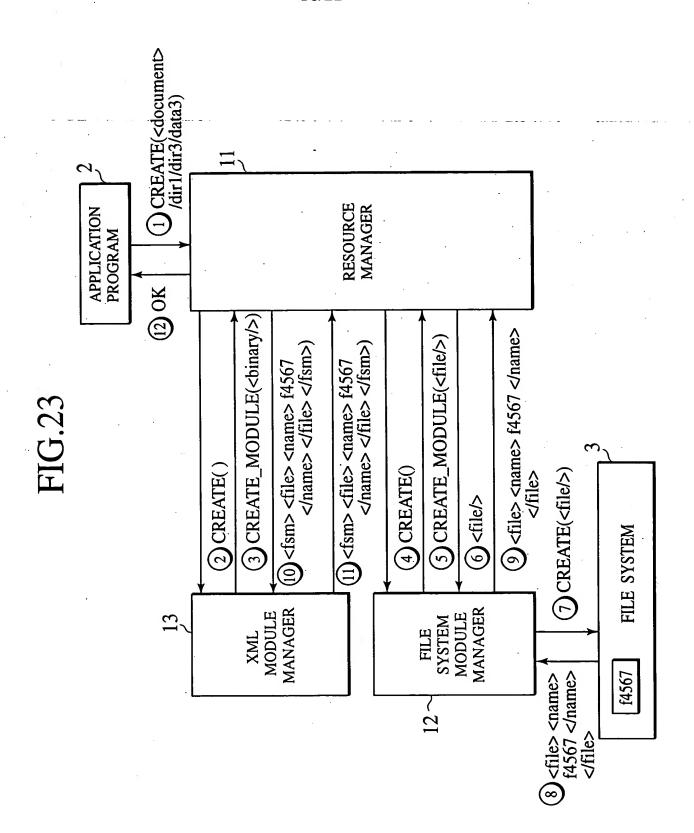
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```
<rule>
  <category>  </category>
  <expand> <propm/> </expand>
</rule>
<rule>
  <category> <directory/> </category>
  <expand> <dirm/> </expand>
</rule>
<rule>
  <category> <association/> </category>
   <expand> <kvm/> </expand>
</rule>
<rule>
   <category> <document/> </category>
   <expand> <xmlm/> </expand>
</rule>
<rule>
   <category> <binary/> </category>
   <expand> <fsm/> </expand>
</rule>
<rule>
   <category> <file/> </category>
   <expand> <file/> </expand>
</rule>
```

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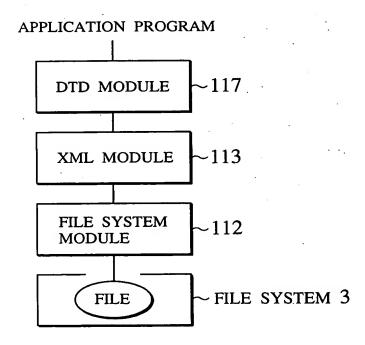
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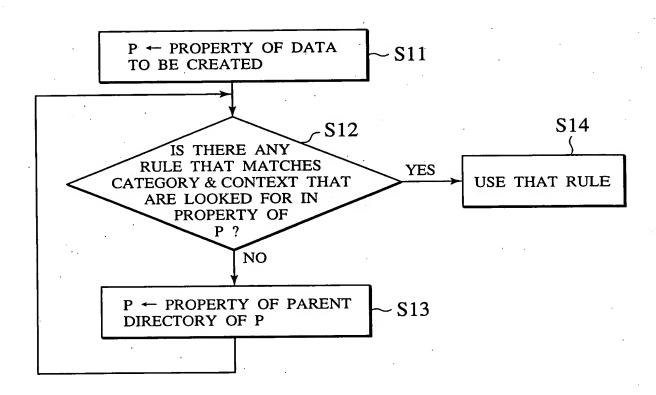
FIG.24



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FIG.27A

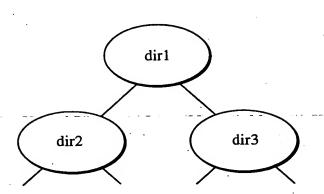


FIG.27B

FIG.27C

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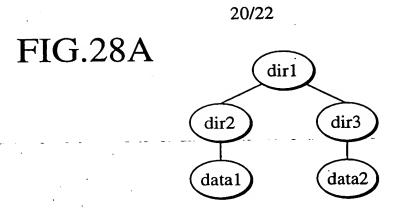
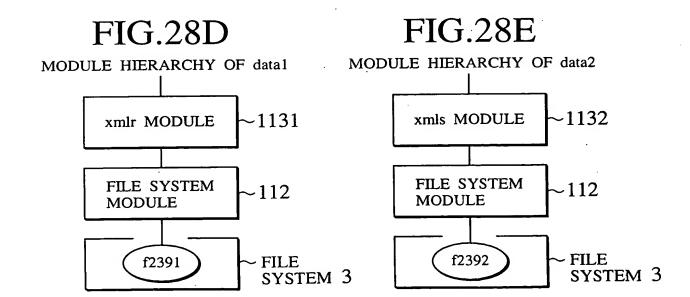


FIG.28B

FIG.28C

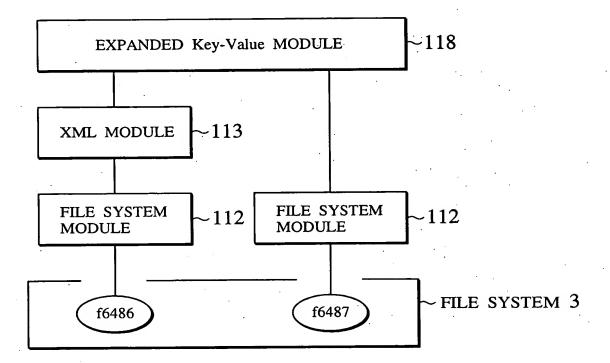


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```
<kva>
   <kvainfo>
       <data>
          <xmlm>
               <fsm>
                  <file>
                     <name>f6486</name>
                  </file>
              </fsm>
          </mlm>
      </data>
      <index>
               <fsm>
                  <file>
                     <name>f6486</name>
                  </file>
              </fsm>
      </index>
   <kvainfo>
</kva>
```